

March 1986

MEMO TO DESIGNERS 9-2

Maintenance Rating

The Office of Structures Maintenance rates all highway structures for permit loads. These permit ratings are given in the form of a 5 letter code (e.g., PPGGO). They are listed for each bridge in the Log of Bridges on State Highways. An explanation of this system is given on Attachment 1. For a complete explanation refer to the Bridge Maintenance Manual.



P. C Warriner


Guy D. Mancarti

FLM dr

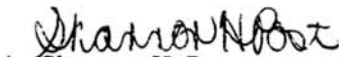
NEW MEMO

9-2 MAINTENANCE RATING

The Office of Structures Maintenance rates all highway structures for permit loads. These permit ratings are given in the form of a 5 letter code (e.g., PPGGO). They are listed for each bridge in the *Log of Bridges on State Highways*. An explanation of this system is given on Attachment 1. For a complete explanation refer to the *Bridge Maintenance Manual*.

A handwritten signature in black ink, appearing to read "Richard D. Land".

Richard D. Land

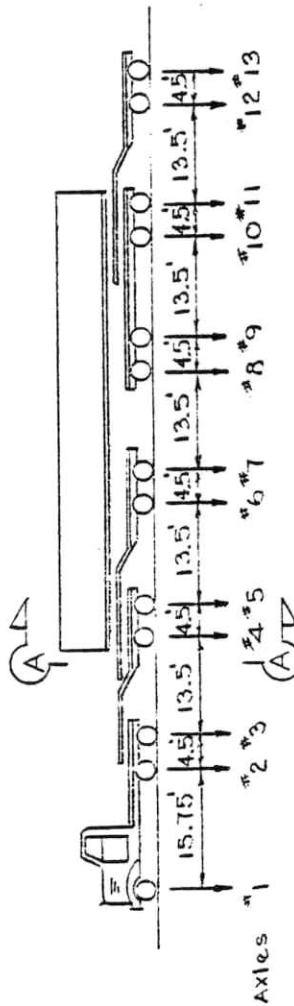
A handwritten signature in black ink, appearing to read "Shannon H. Post".

Shannon H. Post

AMG:jgf/jlw

Attachment

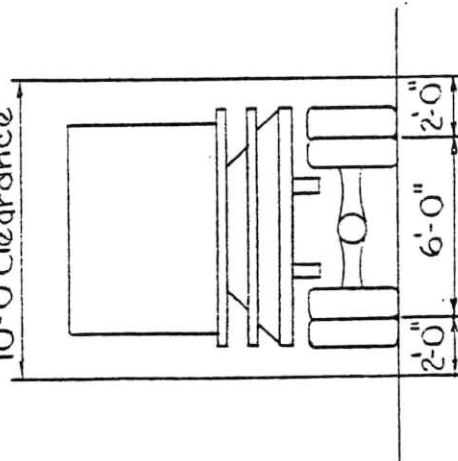
Memo converted to metric.



Axle loads shown are unbonded purple weights

P5	26^k	$24^k 24^k$	$24^k 24^k$	—	—	Minimum Vehicle
P7	26^k	$24^k 24^k$	$24^k 24^k$	$24^k 24^k$	—	—
P9	26^k	$24^k 24^k$	$24^k 24^k$	$24^k 24^k$	—	—
P11	26^k	$24^k 24^k$	$24^k 24^k$	$24^k 24^k$	$24^k 24^k$	—
P13	26^k	$24^k 24^k$	$24^k 24^k$	$24^k 24^k$	$24^k 24^k$	$24^k 24^k$ Maximum Vehicle

10'-0" Clearance



TYPES OF TRUCKS

P = Purple

$G = \text{Green} = 0.867 \times \text{Purple}$

$\lambda_0 = \text{Orange} = 0.667 \times \text{Purple}$

Meaning of

PPGGG

1111

1000

111

1000

STANDARD

STANDARD

FIGURE 1

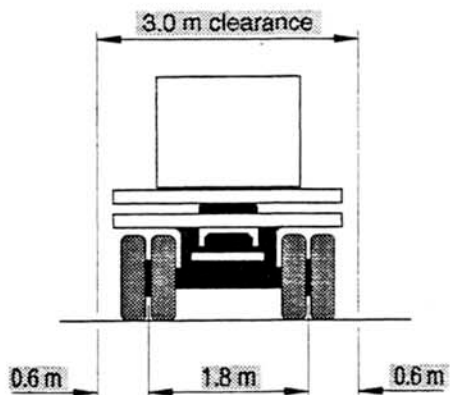
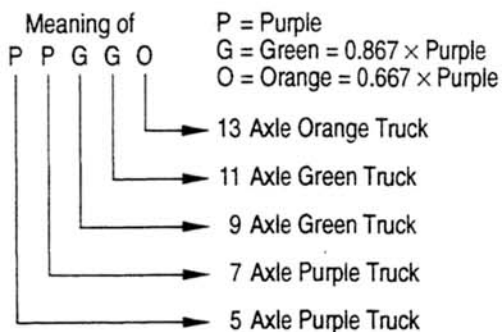
SECTION A-A

STANDARD PERMIT RATING & DESIGN VEHICLES

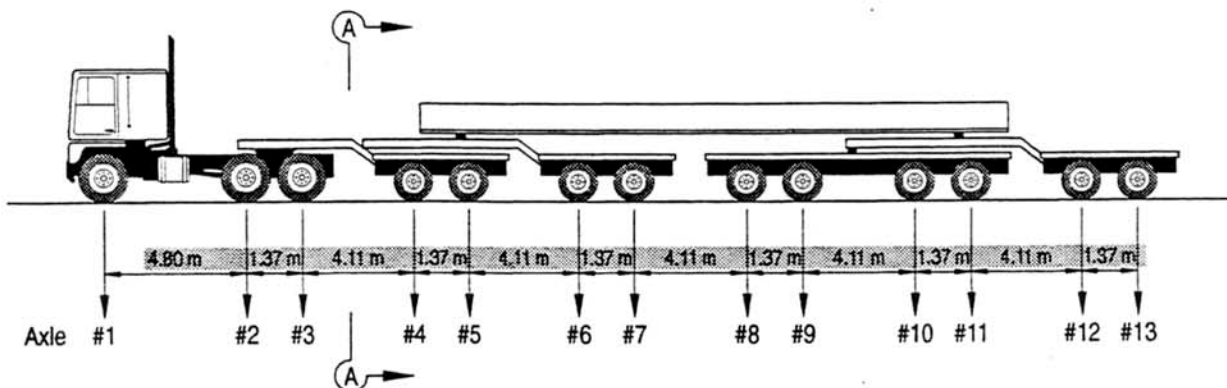
WITH PURPLE LOADS

ATTACHMENT 1

TYPES OF TRUCKS



SECTION A-A



Standard Permit Rating and Design Vehicles with Purple Loads

Load Rate	Axle Purple Loads (Unbonused)												
	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13
P5	116 kN	107 kN	107 kN	107 kN	107 kN								
P7	116 kN	107 kN	107 kN	107 kN	107 kN	107 kN	107 kN						
P9	116 kN	107 kN	107 kN	107 kN	107 kN	107 kN	107 kN	107 kN	107 kN				
P11	116 kN	107 kN	107 kN	107 kN	107 kN	107 kN	107 kN	107 kN	107 kN	107 kN	107 kN		
P13	116 kN	107 kN	107 kN	107 kN	107 kN	107 kN	107 kN	107 kN	107 kN	107 kN	107 kN	107 kN	107 kN

Load Rate P5 = Minimum Vehicle
Load Rate P13 = Maximum Vehicle